

SEIT Technical Details



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**Mission Planning SEIC
Industry Day**

15 Oct 03



Overview

Mission Planning SEI

- Purpose and Overview
- Mission Planning Enterprise Roles/Responsibilities
 - Government Program Management
 - Framework,
 - Common Software
 - UPC Developers
 - Legacy System
- Technical Tasks



Systems Engineering Integration Team

Mission Planning SEIT

- Purpose
 - The Vision is to evolve Mission Planning into a cohesive set of mission planning tools and components for all of DoD and coalition partners.
 - Systems Engineering Integration Team (SEIT) will ensure that these tools and components are architecturally sound, robust, controlled, easy to use, integrate well with the system, adhere to government standards, and adhere to JMPS business and technical rules.



SEIT Sphere of Influence

Mission Planning SEI

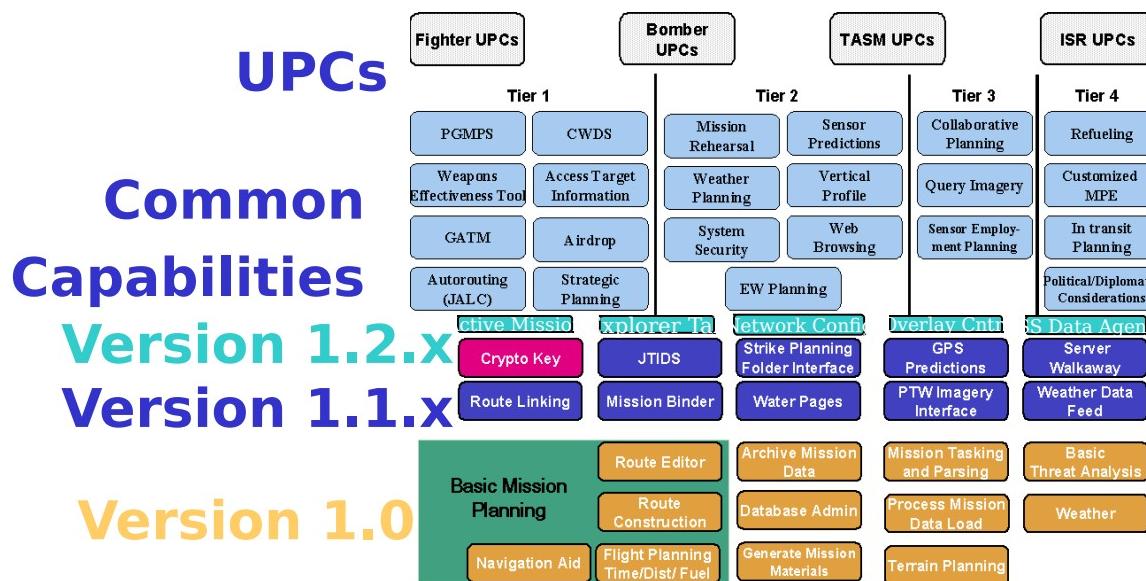
- Key products provided via Mission Planning Enterprise Contract (MPEC) contractors
 - JMPS Framework Software, JMPS UPC Software, JMPS Common Software and Legacy systems
- SEIT goals
 - Foster migration from legacy systems to JMPS
 - JMPS Enterprise wide planning, software integration, risk management, etc...
- SEIT Sphere of Influence begins at the conceptualization phase
 - Varying degrees of influence on software development and integration (Framework, Common Software, and Unique Planning Components (UPC)) and level of support required by each Service.
 - Systems Engineering efforts across Mission Planning Enterprise



Why Do We Need a SEIT Contractor?

Mission Planning SEIT

JMPS is growing rapidly with concurrent, interrelated software developments across multiple contractors and services



JMPS needs a Systems Engineering and Integration Team to foster this growth and ensure all the individual efforts work together



SEIC Core Competencies

Mission Planning SEI

- Large-Scale Integration Expertise ~ 1+ million lines of source code
- Enterprise Management expertise
- Object Model Expertise using Unified Modeling Language (UML) notation
- Software development expertise in technology area
- Efficient configuration management system
- Development Test expertise
- Developer Website/Help desk support services experience
- Training package preparation and conduct experience
- Security qualifications
- Effective documented management processes
 - Capability Maturity Model Integration (CMMI)
- Acceptance criteria for software components
 - Enforcement of technical rules
 - Design standards



Typical Product Responsibilities

Key Yellow SEIC Contractor
Green Government
Blue Common Software
/framework maintainer dev
Mission Planning SEI

Developer defined as Framework Maintainer, Common Software

Future Requirements Management Assist	Program Management					System Test	Operational Test	Warfighter Use
	Systems Requirements Analysis	Req. and Design Compliance	Integration Test				Assist	Assist
		HW/SW Req. Ana.	Component Test	Component Integration Test				

Government Program Mgmt

- Future Requirements Management
- Program Planning
- Controlling the Technical Effort
- Product Line Evolution Management
- Contract Management
- Program Funding
- Risk Management
- System Architectural Consideration
- Organizational development

Developer

- HW/SW Requirements Analysis
- HW/SW Design
- Design Component
- Design Capability
- Component Test
- Capability Testing
- Risk Management
- Technical Rules, Standards
- Metrics
- Training inputs

- Typical Products**
- Software Requirements Specification
 Interface Design Documentation
 Programmers Guide
 Component test procedures
 COE compliance Level 6
 Security compliance & Metrics

SEIT Tasks

- Integration
- Requirements Analysis
- Architecture and Design Guidance
- System Evolution Management
- Understanding UPC Customer Needs
- CM DM QA Abilities
- Cost, Schedule, Performance, Quality
- Risk Management
- Process Definition and Management
- User Support
- Engineering Management
- Government Program Man. Support
- Developer Support
- Maintain close coordination with Warfighters

- Typical Products**
- Risk Management Process
 Requirements Process

- Typical Products**
- Top-level Architecture,
 Integrated Master Schedule,
 Metric reports, Data Model, CM



Government Program Management

Mission Planning SEI

Future Requirements Management + Assist

Program Management

Key (SC) SEIT Contractor
(G) Government
(CC) Common Software/framework maintainer developers
(B) SC and/or G

Government Program Mgmt

- Future Requirements Management
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Typical Products

Risk Management Process
Requirements Process

- **SPO is streamlining Government activities.**
 1. The Governments intention is to contract out other than Inherently Governmental functions under the SEIC, day-to-day Mission Planning program execution activities;
 - a. Enterprise Integration Schedule management (SC)
 - b. Contract admin support tasks (SC)
 - c. Financial management tasks (SC)
 - d. Business operations (SC)
 - e. Mission Planning Environment management (SC)
 2. The SEIC contractor will develop a transition plan. (SC)
 3. Migration of platforms to JMPS. (B)
- **Future Requirements Management**
 1. Development/adherence to Requirements Process (G)
 2. Identify and manage future requirements in accordance with the requirements process. (B)



Government Program Management

Mission Planning SEI

Future Requirements Management Assist

Program Management

Key (SC) SEI Contractor

(G) Government

(CC) Common Software/framework maintain

(B) SC and/or G

- **Program Planning / Scheduling**

1. Provide direction to be given to contractors of the level of detail and incorporation of changes for schedule, i.e contractors deliverables (G)
2. Establish operational need dates (G)
3. Approve schedule (G)
Provide external system schedules (G)

Government Program Mgmt

- Future Requirements Management
- Program Planning
- Controlling the Technical Effort
- Product Line Evolution Management
- Contract Management
- Program Funding
- Risk Management
- System Architectural Consideration
- Organizational development

Typical Products
Risk Management Process
Requirements Process

Controlling the Technical Effort

1. Approve system level use cases, interfaces, object model, build content and changes (G)
2. Systems engineering team provides advice to the government regarding direction to be given to contractors concerning use case, interface, object model level of detail and incorporation of changes to all contractors (G)

- **Product Line Evolution**

1. Systems Engineering provide inputs on roadmap milestones and options (G)
2. Systems Engineering provides advice regarding direction to be given to contractors concerning level of detail and incorporation of changes to all contractors



Government Program Management

Mission Planning SEI

Future Requirements Management + Assist

Program Management

Key (SC) SEIT Contractor

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(CC) Common Software/framework maintainer
developers

- **Contract Funding**
Provide contracts management (G) (See contract)
- **Program Funding**
 - Obtain/retain program funding (G)
- **Risk Management**
 - Manage risks in accordance with existing JMPS documented Risk Management Process (G)
 - Ensure compliance for risk process (G)
- **System Architectural Considerations**
 1. Approve use cases/requirements, interfaces, object model, what is contained in the builds. (B)
 2. Review performance analysis (B)
 3. Ensure JTA/COE compliance standards are met (B)
 4. Provide guidance to software developers regarding top level system architecture. (B)
 1. Level of detail for use cases, interface, object model
- **Organizational development**
 1. Develop Organization (B)

Government Program Mgmt

- Future Requirements Management
- Program Planning
- Controlling the Technical Effort
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Typical Products

- Risk Management Process
- Requirements Process



Framework Maintainers, CC Developers

Mission Planning SEI

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HW/SW Req. Ana.	Component Test	Component Integration Test
-----------------	----------------	----------------------------

Developer
• HW/SW Requirements Analysis
• HW/SW Design
• Design Component
• Design Capability
• Component Test
• Capability Testing
• Risk Management
• Technical Rules, Standards
• Metrics
• Training inputs

Typical Products
Software Requirements Specification
Interface Design Documentation
Programmers Guide
Component test procedures
COE compliance Level 6
Security compliance & Metrics

- **HW/SW Requirements Analysis**
 1. Develop Use Cases (CC)
 2. Assist in HW, COTS evaluation, if required (CC)
 3. Provide inputs for User Manual & Programmer Guide (CC)
 4. Provide inputs for Interface development (IDD), and maintain control of I/F (CC)
- **HW/SW Design**
- **System Architecture**
 1. Implement JMPS IPT Approved system level use cases (CC)
 2. Develop interfaces, object model, build content and provide for changes (CC)
 3. Build/implement Object Model to top level system architecture as defined by the government (CC)
 4. Build components – level of componentization as defined from System Architecture (CC)
- **Design Component**
- **Design Capability**



Framework Maintainers, CC Developers

Mission Planning SEI

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HW/SW Req. Ana.	Componen t Test	Componen t Integratio n Test
<p>Developer</p> <ul style="list-style-type: none">• HW/SW Requirements Analysis• HW/SW Design• Design Component• Design Capability• Component Test• Capability Testing• Risk Management• Technical Rules, Standards• Metrics• Training inputs		
<p>Typical Products</p> <p>Software Requirements Specification</p> <p>Interface Design Documentation</p> <p>Programmers Guide</p> <p>Component test procedures</p> <p>COE compliance Level 6</p> <p>Security compliance & Metrics</p>		

- **Component test**
 1. Perform Component qualification test (CC)
 2. Develop/Comply with test plan, procedures, and provide results of testing (CC)
- **Capability testing**
 1. Review JMPE System test to avoid duplication (CC)
 2. Conduct requirements test of component (CC)
 3. Conduct certification test (COE, Security) (CC)
- **Risk Management**
 1. Manage risks in accordance with existing JMPS documented Risk Management Process (CC)
 2. Execute Risk Management (CC)
- **Comply with JMPS Business and Technical Rules, Standards (CC)**
- **Metrics input**
 1. Comply with SEIT Metrics plan (CC) (Metrics CDRL)
- **Training**
 1. Provide training inputs for instruction/manuals



SEIT Tasks

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Mission Planning SEI

Systems Requirements Analysis	Req. and Design Compliance	Integration Test	System Test	Operational Test	Warfighter Use
				Assist	Assist

Integration

1. Perform Vertical and horizontal integration of common software (B)
2. Provide integration support for UPC, as required (B)
3. Provide UPC compatibility testing (B)
4. Coordinate between common software developers to ensure compatibility (B)
5. Establish and ensure adherence to design standards (B)
6. Ensure compliance with business and technical rules (B)
7. Provide integration support for User Developed Apps (B)
8. Ensure development of and maintain C4ISP architecture data views, in accordance with C4ISP Framework (B)
9. System Verification and Validation
 1. Support Government DT/OT for developers (B)

SEIT Tasks

- Integration
- Requirements Analysis
- Architecture and Design Guidance
- System Evolution Management
- Understanding UPC Customer Needs
- CM DM QA Ilities
- Cost, Schedule, Performance, Quality
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Typical Products

Top-level Architecture,
Integrated Master Schedule,
Metric reports, Data Model, CM Plan



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- Integration (continued)**

10. Perform Security certification/Accreditation (B)
11. Provide Public Interface control (B)
12. Integrate and test JMPS Framework and common software (B)
13. Integration of additional flight planning software per government request. (B)
14. Assist other developers in asynchronous testing (B)
15. Support compatibility testing among UPCs (B)

- Requirements Analysis**

1. Manage and review JMPE System requirements (B)
2. Develop JMPE System requirements, ie. ISRT inter-service requirements team (G)
3. Manage high-level Use Case data base and traceability to system requirements and system tests (B)
4. Manage operational Use Case data base and

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- **Requirements Analysis (continued)**

1. Support the software developers regarding compliance with the top level system architecture. (B)
 1. Level of detail for use cases, interface, object model (B)
2. Ensure all interface/requirements disconnects are resolved (B)

- **Architecture and Design Guidance**

1. Ensure system to systems compliance (I.e C4ISP)(B)
2. Develop/maintain top level architecture, identify Interdependencies between CC and Framework components, and data modeling (B)
3. Provide design guidance in accordance with operational, system and technical architectures

- **System Evolution Management**

1. Build roadmap with milestones (B)
 1. A pre-planned product improvement roadmap (B)

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- System Evolution Management**

1. Manage COTS, Software, Hardware
 - a. Evaluate COTS , Software and Hardware upgrades and provide recommendations, anticipate evaluation once a year (B)
 - b. Purchase upgrade (G)
 - c. Recommend COTS product integration into next maintenance release (B)
 - d. Provide COTS, Hardware, and Software upgrades, if required (B)
 - e. Manage licenses, if required (B)

- Understanding UPC Customer needs**

1. Attend design reviews, TIMs, UPC events, working groups (I.e COE) etc..) (B)
 1. ~63 (AF/Navy/Army) UPCs (potential for fewer meetings, since a contractor may build more than one UPC) over 7-10 yrs
 2. ~40 Common Capabilities (many components may be reviewed at once since there is only a few contractors developing the CC software).

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Mission Planning SEIT

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- Understanding UPC Customer needs**

- Participate in Working Group Support (I.e developer, COE, etc..) (B)

- CM DM QA Illities**

- Maintain comprehensive knowledge repository (B)
- Manage Master Software Configuration, (source code, docs, etc..) including management of multiple baselines, captured in CM Plan (B)
- Provide Hardware System configuration management (as installed) (G)
- Control, distribute and archive all versions (framework, Common Components and service specified tasks for UPCs) (G-Navy, B-AF, Army)
- Build and test integration test scripts (B)
- Build and test developer install scripts (SC)
- Maintain integrated programmers guide, Interface Control Documents, certifications, standards (B)

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Mission Planning SEIT

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				Assist	Assist

- Cost, Schedule, Performance, Quality**

1. Development of Integrated Master Schedule (B)
2. Tracking of costs (G)
3. Provide Performance assessment and identification of bottlenecks (B)

- Risk Management**

1. Manage risks by extending existing J MPS documented Risk Management Process (B)

- Process Definition and Management**

1. Define and manage CM Process (B)
2. Define Multiple Baseline Processes (B)
3. Define and manage CDRL process (G)
4. Define and manage Risk Management Process (G)
5. Define and manage Metrics Process (B)
6. Define and manage Problem Reporting Process (B)

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- User support**

1. Provide Hot Line, Help Desk, Web site for users (G)
2. Manage operational releases, including tech data (G)
3. Build releasable configurations for field (G)
4. Provide release notifications to the field (G)
5. Distribute releases (Web, CD) for field operations (G)
6. Assist in network installations for field operations (G)
7. Integrate GFI and UPC training modules (G)
8. Publish and distribute training material (Web, CD) (G)
9. Provide online learning courses (G)
10. Develop integrated users manual (G)
11. Provide onsite support to users (G)
12. Provide JMPE Support to Sustainment team (SC)

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SEIT Tasks

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Mission Planning SEIT

Systems Requirement s Analysis	Req. and Design Compliance	Integrati on Test	System Test	Operational Test	Warfighter Use
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- User support (continued)**

12. Provide system setup and checkout (G)
13. Perform system procurement(G)
14. Develop and execute User Training (G)
15. Provide Inventory control point (G) (including management of repair contracts)
16. Maintain user licenses (G)
17. Perform site activation (G)

- Engineering Management**

1. Investigate and recommend best approach for a Centralized Problem Reporting System, document in process. (B)
2. Provide Deficiency Reporting (DR) database (G)
3. Collect/Report Metrics, according to metrics plan
4. Ensure compliance with Business and Technical Rules (B)
5. Manage SEIT activities through a Project Schedule (B)
6. Assist in defining SEIT contractor roles and

SEIT Tasks

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SEIT Tasks

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Mission Planning SEIT

Systems Requirements Analysis	Req. and Design Compliance	Integration Test	System Test	Operational Test	Warfighter Use
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- **Government Program Man. Support**
 1. Support of government program tasks (SC)
- **Developer Support**
 1. Provide Developer Training, SDKs, Wizards (SC)
 2. Provide Helpdesk, hotline (SC)
 3. Maintain Website (SC)
 4. Provide consulting guidance, and support (SC)

SEIT Tasks

- Integration
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Mission Planning - SEIT

Systems Requirements Analysis	Req. and Design Compliance	Integration Test	System Test	Operational Test	Warfighter Use
				Assist	Assist

- **Maintain close coordination with Warfighters**

1. Define roles/responsibilities (B)
2. Assist with Market Mission Planning services to community (B)
3. Develop ways to support UPC development efforts (B)
4. Develop ways to support and market for foreign sales (G)
5. Participation in Mission Planning User Conferences, and OAG (B)
6. Participation in meetings with warfighters, showing demo's, prototypes, and use cases, per government request (B)
7. Participation in Joint Requirements Board (JRB), per government request. (B)
8. Support quarterly exercises, i.e red flags, JEFX, JTDX, at government request (B)

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SEIC Tasks

Mission Planning SEI

- **System Engineering**
 - **Requirements Analysis.** {Review FY04/05 Common Capability (CC) packages for Mission Planning Enterprise Contract (MPEC)s}
 - **Interdependency Analysis.** {Define CC interdependencies, refine integration schedule based on findings}
 - **Interface Definition.** {Develop interfaces for CC and Framework (FW)}
 - **Requirements Traceability.** {Trace from Operational Requirements Document (ORD) to test}
- **Architecture and Design**
 - **Review and extend Object Model, Top-Level Architecture, Data Architecture, and CCs adherence to architecture technical rules.**
 - **External Interface Analysis.** {Identifying automated interfaces (e.g. Air Tasking Order (ATO)}
 - **Technical Standards.** {Design, Common Operating Environment (COE), User Interface and Windows Logo}
 - **Performance Analysis.** {Tools/strategies to improve performance, Key Performance Parameters (KPP) relation to components}
 - **Component Design Support.** {Proper use of FW and CCs}



SEIC Tasks

Mission Planning SEI

- **System Evolution.** {Roadmap}
- **Engineering Management.** {Configuration Management (CM), Software development Metrics, knowledge repository, Component Management registering, receiving, scheduling, tracking delivery of data rights/software components}
- **System Integration.** {Integration plans, responsibilities, horizontal integration among JMPS CCs, integration of Software Development Kits (SDK)s, Wizards and Generic Unique Planning Components (GUPC)s}
- **System Test.** {Component test, System test, Regression tests}
 - **Generic Test Procedures.** {Validating UPC/CC/FW}
 - **Problem Reporting System.** {Centralized reporting system}
- **Examples of Special Studies**
 - Advanced Computer Flight Planning (ACFP) High Performance team (HPT) Support. {Support migration to JMPS}
 - Life Cycle Upgrade. {Support Mission Planning System (MPS) upgrade C2.3}
 - Synchronized Air Power Management (SAPM) Phase II.



Next Steps SEIC

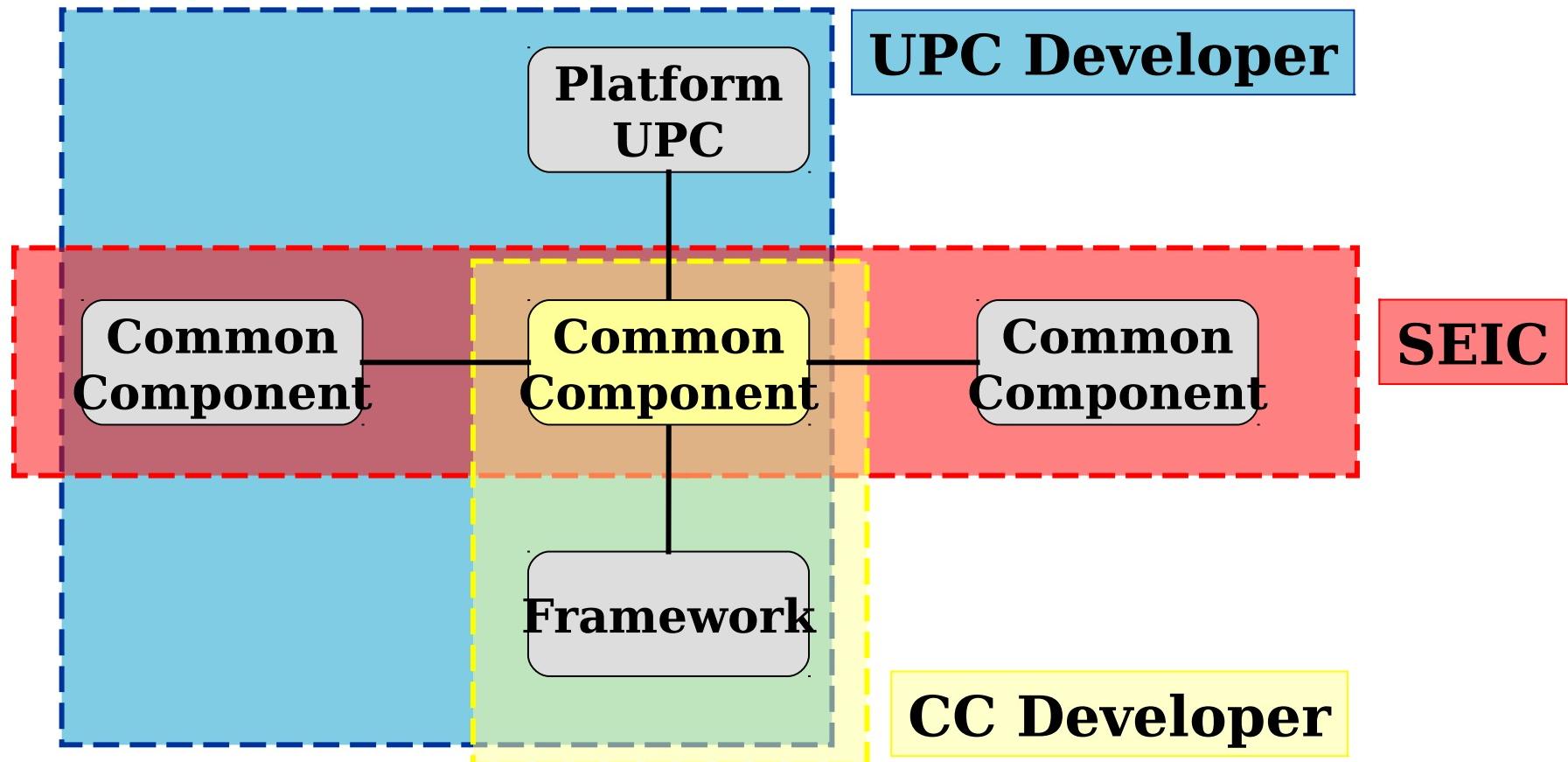
Mission Planning SEIC

- Anticipate defining MPECs delivery order packages
 - Review of Common Capabilities Requirements packages developed under short-term SEIC
- A Transition Plan, describing how Mission Planning will transition from a short-term to a long-term SEIC
 - A Strawman *Transition Plan* will be part of the Offerors library.



Horizontal/Vertical Integration

Mission Planning SEI

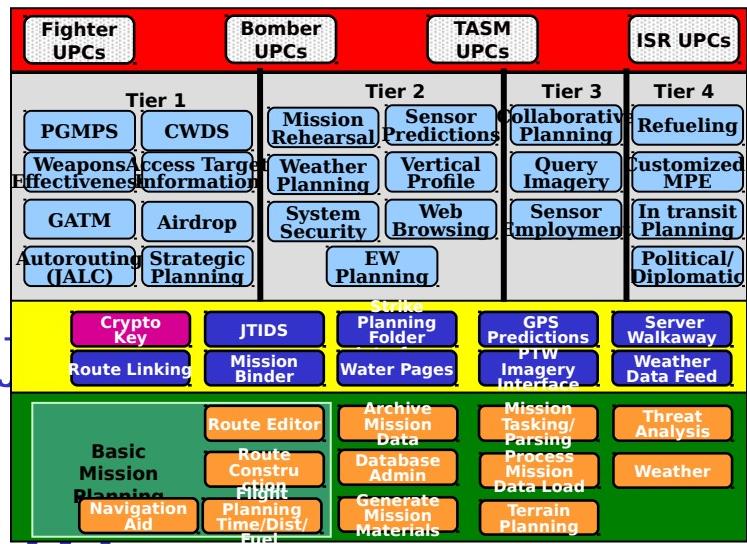




Integration Illustration

Future Common Capabilities
In development
Framework/
Flight Planning

Horizontal Integration



Vertical Integration

- Horizontal (CC to CC) integration
- Vertical (Framework to CCs to Platform UPC) integration

Mission Planning SEI

E.g SEIC Responsibility

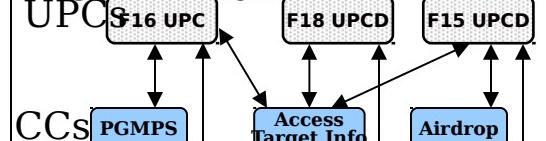
Tier 1



Framework

Horizontal

E.g Platform UPC Responsibility



Framework

Vertical